GCSE Mathematics Revision Support 2023

Mrs A Sandham

Head of Mathematics



During this session:

- I will explain to you what support we have in place for your child with GCSE Mathematics
- I will show you some of the resources we use and you can also use these with your child at home

Key Information

Exam Board – Edexcel (Pearson)

Higher Tier (Grades 3 - 9) **Foundation Tier** (Grades 1 - 5)



80 marks

90 mins

16th May

Paper 2 – Calculator

80 marks

90 mins

3rd June

Paper 3 – Calculator

80 marks

90 mins

10th June



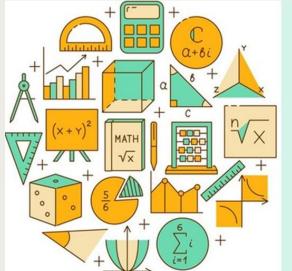


Support in School

At present, students are set half a GCSE paper and MathsWatch or other targeted revision on alternate weeks. Students can drop in to room 1 any lunchtime Tuesday-Friday to get help on particular exam questions. Practice exam papers have also been set for students to do on MathsWatch. MathsWatch marks the work instantly so students get quick feedback. When students are stuck, they can watch a linked video clip for help.



- Individual class teachers many invite certain students to attend additional lunchtime and afterschool sessions.
- Students will focus on key areas each week if they come along to Maths Clinic. This is a targeted revision session.



GCSE Maths Clinic

Every Wednesday lunchtime 12.30 - 1pm

Room 4 - Grade 4+ focused revision

Room 6 - Grade 7+ focused revision

Session 1 - Indices

Session 2 - Quadratic Sequences

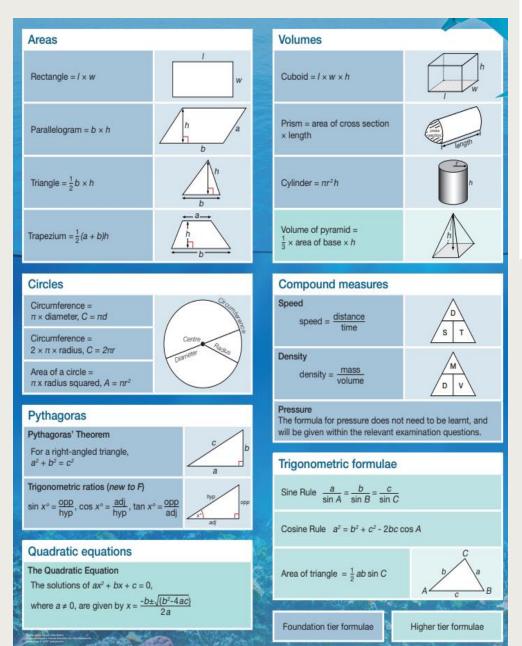
Session 3 -Rearranging Harder Formulae

Session 4 -Algebraic Fractions

Session 5 - Bounds

Support in School

- Students will be provided with weekly revision cards next term to encourage them to learn important facts and formulae in the build up to their exam.
- Please test them at home each week to ensure they have learnt what they need. They should also revisit previous revision cards to help retain the knowledge.
- Exam boards have not yet released whether or not students will receive formulae sheets in their examinations.





How to Revise - Exam Papers Practice

Practising exam papers is very important during revision. It gives students a chance to pull their knowledge from different areas quickly when working through questions and also accustoms students to the exam-style question types you might see.



If possible, students should try and work through them in timed conditions so they are not caught out by the timed conditions when it comes to the actual exam.

Maths Genie

(https://www.mathsgenie.co.uk/gcse.html)

Maths Genie GCSE Revision GCSE Papers ▼ A Level Revision A Level Papers ▼ KS2 Revision Resources

Edexcel GCSE Exam Papers

Pearson Education accepts no responsibility whatsoever for the accuracy or method of working in the answers given.

Grade Boundaries

Foundation GCSE Exam Papers

Paper	Answers
May 2022 Paper 1	MS Ans
June 2022 Paper 2	MS Ans
<u>June 2022 Paper 3</u>	MS Ans
November 2021 Paper 1	MS Ans
November 2021 Paper 2	MS Ans
November 2021 Paper 3	MS Ans
2020 Paper 1	MS Ans
2020 Paper 2	MS Ans
2020 Paper 3	MS Ans
November 2019 Paper 1	MS Ans
November 2019 Paper 2	MS Ans



12 Express 0.117 as a fraction. You must show all your working.

$$0.117 = x

1.17 = 10x

117.17 = 1000 x

116 = 990 x

$$\frac{116}{990} = x$$$$

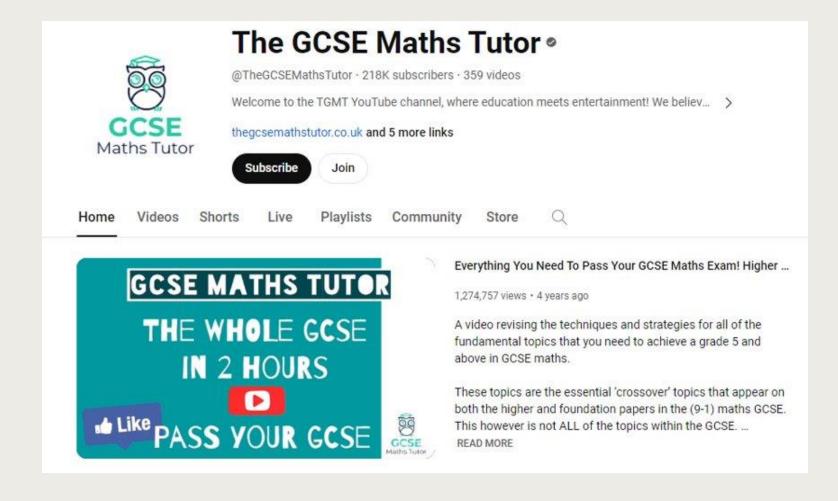
(Total for Question 12 is 3 marks)

How to Revise - Topic Specific Practice

Through doing past papers, students can then identify specific topics they need to focus on.

It may be helpful to watch YouTube tutorials and start with the basics before working on more complex questions.





The GCSE Maths Tutor - YouTube

Grade 5 Revision Topics (Crossover Playlist)



Everything You Need To Pass: Your GCSE Maths Exam!... and How to use Them!! |...

The GCSE Maths Tutor 1.2M views • 4 years ago

All the GCSE Maths Formulas

The GCSE Maths Tutor @ 63K views • 2 years ago

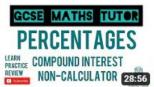


Speed, Distance & Time Without a Calculator 💮 ...

GCSE MATHS TUTOR

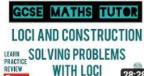
NON-CALCULATOR 32:47

The GCSE Maths Tutor @ 40K views • 2 years ago



Compound Interest without a Calculator (Paper 1 Non-...

The GCSE Maths Tutor @ 22K views • 2 years ago



Problem Solving with Loci | Loci & Construction | Grade...

The GCSE Maths Tutor ② 43K views • 2 years ago



Dallam School

Probability Trees (Dependent Combined Events) |...

The GCSE Maths Tutor @ 97K views • 3 years ago

Aiming for Grades 7-9 Maths Series



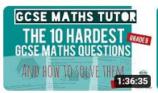
Everything for a Grade 6-9 in your GCSE Maths Exam!...

The GCSE Maths Tutor 788K views • 4 years ago

GCSE MATHS TUTOR THE 10 HARDEST GCSE MATHS QUESTIONS **GRADE 9 SERIES** ND HOW TO SOLVE THE 58:18

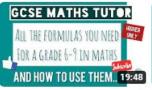
The 10 Hardest GCSE Maths Questions 2023 | Part 1 | ...

The GCSE Maths Tutor @ 189K views · 4 years ago



The 10 Hardest GCSE Maths Questions 2023 | Part 2 |...

The GCSE Maths Tutor @ 55K views • 8 months ago



All the GCSE Maths Formulas for a Grade 6-9 and How to...

The GCSE Maths Tutor ② 42K views • 2 years ago

GCSE MATHS TUTOR ALL THE TOPICS YOU NEED TO KNOW FOR THE MATHS GCSE Like PASS YOUR GCSE 2:51

All The Topics You NEED To Know For The 9-1 Maths...

The GCSE Maths Tutor @ 20K views • 3 years ago

PRACTICE COMPLETING THE SOUARE & TURNING POINTS

Completing the Square & Turning Points (Higher Only...

The GCSE Maths Tutor 159K views · 4 years ago

Grade 9 Maths Revision Series



The 10 Hardest GCSE Maths Questions 2023 | Part 2 | ...

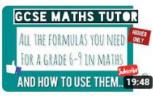
The GCSE Maths Tutor ② 55K views • 8 months ago

Fundraiser



The 10 Hardest GCSE Maths Questions 2023 | Part 1 |...

The GCSE Maths Tutor 189K views • 4 years ago



All the GCSE Maths Formulas : for a Grade 6-9 and How to ...

The GCSE Maths Tutor 42K views · 2 years ago



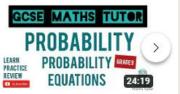
How To Find The Exact Trigonometric Values - Tric...

The GCSE Maths Tutor ② 92K views • 4 years ago



Vectors & Vector Proofs (Vector Geometry) | Grade 9...

The GCSE Maths Tutor @ 248K views • 3 years ago



Probability Equations | Grade 9 Maths Series | GCSE Math ...

The GCSE Maths Tutor 93K views • 3 years ago

Maths Genie

(https://www.mathsgenie.co.uk/gcse.html)

GCSE Papers ▼ A Level Revision A Level Papers ▼ KS2 Revision Resources

GCSE Revision

Q Search for topics...

Grade 1

Videos	Exam Questions	Exam Questions Booklet	Solutions
Addition and Subtraction	Exam Questions	Addition and Subtraction	Solutions
Multiplication and Division	Exam Questions	<u>Multiplication and Division</u>	Solutions
Time	Exam Questions	Time	Solutions
Writing, Simplifying and Ordering Fractions	Exam Questions	Writing, Simplifying and Ordering Fractions	Solutions
<u>Place Value</u>	Exam Questions	<u>Place Value</u>	Solutions
Rounding	Exam Questions	Rounding	Solutions
Negative Numbers	Exam Questions	Negative Numbers	Solutions
Powers and Roots	Exam Questions	Powers and Roots	Solutions
BIDMAS	Exam Questions	The Order of Operations	Solutions
Factors and Multiples	Exam Questions	<u>Factors, Multiples and Primes</u>	Solutions
Coordinates		Coordinates	Solutions
<u>Pictograms</u>		<u>Pictograms</u>	Solutions



	PI	ease do not w	vrite on this sheet	mathsgenie.co.uk	
1 Work out an estimate for the	value of $\frac{48.7 \times 61.3}{11.3}$	(3 marks)	8 Work out an estimate for the value	of $\frac{8.3 \times 18.7}{0.52}$ (3 marks)	
Work out an estimate for the	value of $\frac{41.2 \times 19}{0.49}$		9 Eddie and Ellen use a calculator Eddie's answer is 1.5 Ellen's answer is 15	Eddie and Ellen use a calculator to work out $\frac{431.1}{14.3 + 3.8^2}$ Eddie's answer is 1.5	
Work out an estimate for the	value of $\frac{28.4 \times 21.5}{5.9}$	05	One of those answers is correct.		
		(3 marks)	Use approximations to find out v	which answer is correct. (3 marks)	
4 Work out an estimate for the	value of $\frac{7.4 + 23.05}{0.196}$	<u> </u>	10 Ciara drives an average of 43.6 r	niles per week	
Work out an estimate for the	value of $\frac{91.25 \times 4.3}{2.31}$	(3 marks)	57		
		(3 marks)		(1) (3 marks)	
Work out an estimate for the	value of $\frac{18.3 + 62.8}{0.13}$	1	11 Dennis gets paid £8.21 per hour Each week Dennis works 41 hou		
		(3 marks)	(a) Work out an estimate for the	amount Dennis gets paid in a week	
7 Work out an estimate for the	value of $\frac{21.75 + \sqrt{9}}{0.192}$	8.1	(b) Is your answer to part (a) an Give a reason for your answ	(2) underestimate or an overestimate? er.	
		(3 marks)		(1) (3 marks)	

Corbett Maths

(https://corbettmaths.com/)

Corbett Maths is a free site that your child can access that provides a great deal of supporting material and question practice.





Welcome Videos and Worksheets Primary 5-a-day V More V Revision Cards

Welcome







GCSI Revision

Percentages: change <u>Video 233</u> <u>Practice Questions</u> <u>Textbook Exercise</u>

Percentages: of an amount (non-calc) <u>Video 234 Practice Questions</u> <u>Textbook</u> Exercise

Percentages: of an amount (calc) <u>Video 235</u> <u>Practice Questions Textbook</u> Exercise

Percentages: compound interest <u>Video 236</u> <u>Practice Questions</u> <u>Textbook</u> Exercise

Percentages: simple interest <u>Video 236a</u> <u>Practice Questions</u> Textbook Exercise

Percentages: expressing as <u>Video 237</u> <u>Practice Questions</u> <u>Textbook Exercise</u>

Percentages: increasing\decreasing \(\frac{Video 238}{Video 238} \) \(\frac{Practice Questions}{Practice Questions} \) \(\frac{Textbook}{Textbook} \)

Percentages: multipliers Video 239 Practice Questions Textbook Exercise

Percentages: reverse <u>Video 240</u> <u>Practice Questions</u> <u>Textbook Exercise</u>

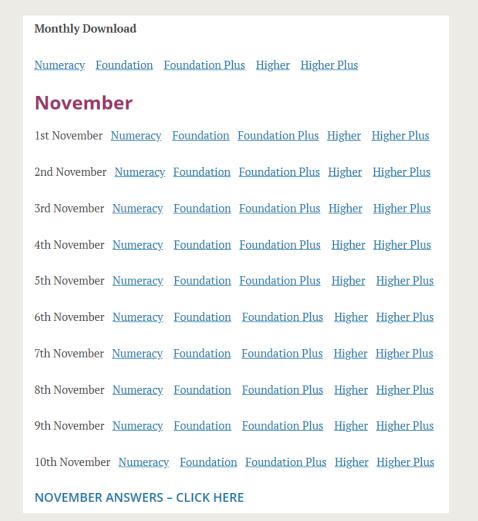
Corbett Maths

(https://corbettmaths.com/)

The 5-a-day is designed to give pupils 5 questions for each day of the year to practice different areas of the maths GCSE. They come complete with answers by clicking on the answers link on the page. The answers are particularly beneficial as they are model answers that show the calculations required to arrive at the answer rather than just the answer itself.







Corbett Maths

(https://corbettmaths.com/)

Corbett Maths will also produce practice papers available for pupils once the first paper has been sat, i.e. they will analyse the first paper of the GCSE and produce a paper that will practice the outstanding topics. Similarly once two papers have been sat they will produce a practice paper geared towards topics that are more likely to appear on the final GCSE paper. These final practice papers will be invaluable to support Year 11 pupils revision once exams have started. Corbett Maths also make revision cards available for purchase.



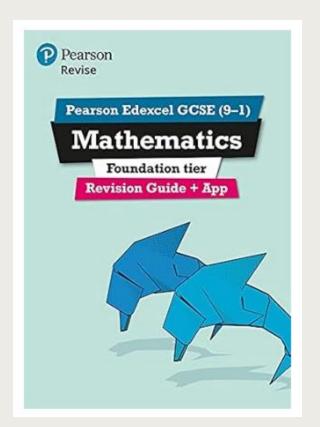


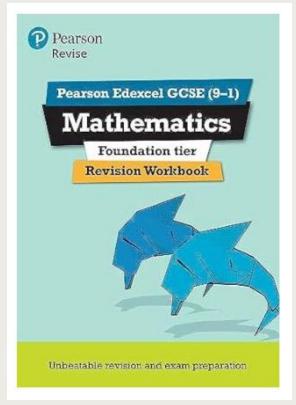
Revision Guides

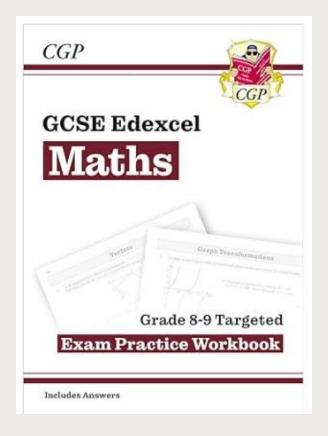
There are a number of revision guides available for use with the 9-1 Maths GCSE. Whilst most of these will be suitable, the one we recommend is produced by Pearson. Students will need either a foundation or higher tier revision guide and workbook. Pearson also sell ready made revision cards which some students may find helpful.

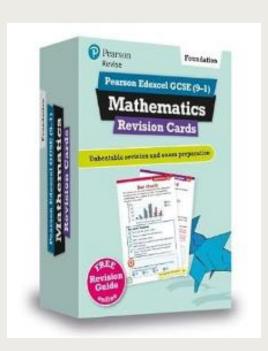


CGP also offer a further book for those pupils on the Higher tier that are working towards the very top grades of 8 and 9.









How Can You Help?

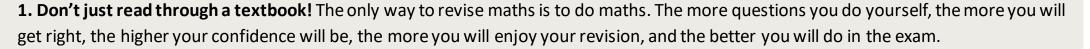
Some practical suggestions:

- 100% attendance
- Essential equipment fully stocked pencil case and calculator (Casio FX83-GT range)
- Encourage and help them manage their stress
- Help them to develop independent study habits
- Remind them of key dates
- Make and monitor a weekly revision plan
- Ensure that they take advantage of all the support provided in school
- Guide them to appropriate resources for learning (revision guide, websites and past papers)
- Help them with active revision techniques





Top Tips





- 2. Don't just practice the topics you can do. If you are really good at fractions, for example, it is very tempting to keep doing lots of fractions questions. But unfortunately, the exam is probably not going to have more than one or two fractions questions. Although it can be painful, work your way through the topics that you struggle with, because it is much better to struggle on them at home, when you have time on your side and the answers available, than it is to struggle in the exam.
- **3. Make sure you ask for help.** Again, once you are in the exam you are on your own, but during revision you are certainly not. If you are stuck on a topic or a question, then ask one of the people from your class, or your teacher, or someone at home or look on the internet.
- **4. Practice doing questions under exam conditions.** Get someone to pick you a set of questions from your textbook, or get some from a maths website, and try doing them in silence, with no help, for a fixed amount of time. This will get you used to what it will be like in the exam, how fast you need to go, and is the best way of checking that you really understand a topic.
- **5. Practice using your calculator!** All calculators work differently, and unless you have used yours for lots of different types of questions (trig, Pythagoras, negative numbers, indices), you might come stuck in the exam. Find out if there are any problems early enough to correct them!
- **6.** If it works for you, try revising with a friend for a bit of the time. You will find that one of you understands one topic more, whilst the other is a bit of an expert on another. Just by explaining things to a friend, you will find that your understanding increases, and likewise you might learn a different way of thinking about and understanding a topic.